LUR'YE, Lev Afanas'yevich, kand. tekhn. nauk. Prinimal uchastiye LURODO.

VOY, A.I.; ZVENIGORODSKIY, G.Z., nauchn. red.; BASHKOVICH, A.L.,

red.izd-va; SUSHKEVICH, V.I., tekhn. red.; TOKER, A.M., tekhn. red.

[Coals and the technology of their briquetting] Iskopaemye ugli i tekhnologiia ikh briketirovaniia. Moskva, Vses. uchebno-pedagog. izd-vl Proftekhizdat, 1961. 286 p. (MIRA 14:11) (Briquets (Fuel))

New circuits for d.c. petentiemeters. Informtekh. sber. MRP no.8:35-39 '58. (MIRA 12:1)							
1.Krasnedarskiy zaved elektreismeritel'nykh priberov. (Petentiemeter)							
				\$			

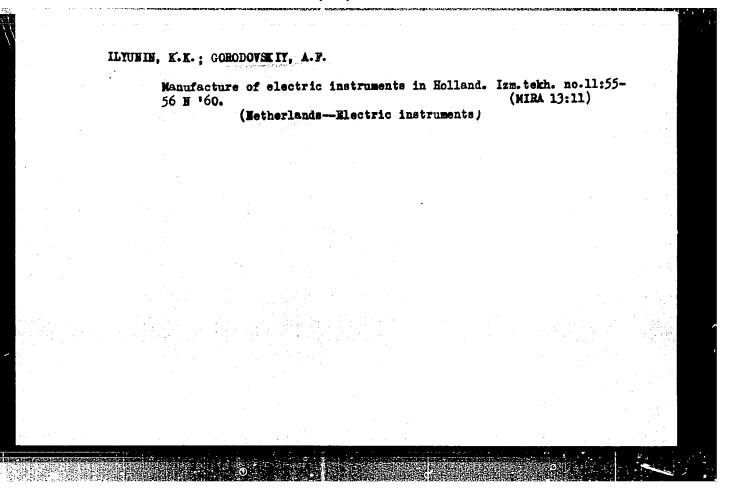
NESTERENKO, A.D., otv.red.; LEVIN, M.I., doktor tekhn.nauk, red.; ORNATSKIY, P.P., kand.tekhn.nauk, red.; PETROCHKNKO, V.F., kand.tekhn.nauk, red.; GORODOVSKIY, A.F., inzh., red.; ZASLAVSKIY, S.Sh., inzh., red.; SELIBER, B.A., inzh., red.; KAZANTSEV, B.A., red.izd-va; YEFINOVA, M.I., tekhn.red.

[Problems in the manufacture of general electrical instruments]
Voprosy obshchego elektropriborostroeniia. Kiev. 1960. 262 p.
(MIRA 13:6)

1. Akademiya mauk USSR, Kiyev. Institut elektrotekhniki.

2. Chlen-korrespondent AN USSR (for Nesterenko).
(Electric instruments)

THE RESERVE THE PROPERTY OF TH



GORODOVSKIY, A.F.; KOTEL'NIKOV, V.P.

The P 316 d.c. bridge. Izm.tekh. no.5:28-31 My '61. (MIRA 14:5)
(Bridge circuits)

STROMHERG, A.G.; GCRODOVYKH, V. Ye.

Polarographic determination of 10<sup>-7</sup> m. of lead. Zav.lab. 26
no.1:46-48 '60. (MIRA 13:5)

1. Tomskiy politekhnicheskiy institut.
(Lead-Analysie)
(Polarography)

I	COD	Determination of the ultramicroimpurities of zinc, lead, and copper in high purity tin by analgam polarography. Zav.lab. 27 no.5:517-521 61. (MIRA 14:5)										
	1.	Tomskiy po (Zinc	olitekhnich Analysis)	eskiy inst (Lead—An	itut. al <b>y</b> sis)	(Copper-	-Analysis)	•				
		<del>.</del>	}	Ņ					·			
					•				,			
. <del>-</del>	• .		. <b>.</b>		<b>k</b> .	 :			•			
									1.4			
								÷				
	•		1 11.				•					

STROMBERG, A.G.; GORODOVYKH, V.Ye.

Intermetallic compound of zinc with copper. Zhur. neorg. khim.
8 no.10:2355-2359 0 '63. (MIRA 16:10)

1. Tomskiy politekhnicheskiy institut.
(Intermetallic compounds) (Zinc) (Copper)

Mathod of amalgam polarography with storage. Part 1: Develonment of the theory. Trudy Kom. anal. khim. 15:141-149 '65.

Method of amalgam polarography with storage. Part 2: Quantitative theory, polarographic characteristics of the anodic current, apparatus and practical application of the method. Ibid.s: 50-163 (MIRA 18:7)

L 52281-65 ENT(m)/T/ENP(t)/ENP(b) JD

ACCESSION NR: AT5012676

UR/2513/65/015/000/0150/0163

19 13 24

AUTHOR: Stromberg, A.G.; Zakharov, M.S.; Gorodovykh, V.Ye.

TITLE: The method of amalgam polarography with accumulation. Part 2. Quantitative theory, polarographic characteristics of anodic current, apparatus, and practical application of the method

SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy, v. 15, 1965. Metody kontsentrirovaniya veshchestv v analiticheskoy khimii (Methods of concentrating substances in analytical chemistry), 150-163

TOPIC TAGS: amalgam polarography, accumulation polarography, semiconductor analysis, dropping mercury electrode, anode peak potential

ABSTRACT: The authors developed a method of calculation for amalgam polarography of a cumulation (APA) involving the use of a stationary dropping mercury electrode, and a clated the anodic peak constant for elements in various electrolytes. Experimental data showed that this constant is inversely proportional to the width of the halfpeak. The potentials of the anodic peaks were determined in various electrolytes for Cu(II), Pb, In, Zn, Tl(I), Sb(III), Ge, Ca, Sn(IV), Bi, and Cd. The use of differential

Card 1/2

L 52281-65

ACCESSION NR: AT5012676

amalgam polarography for the purpose of increasing the accuracy and reliability of the APA method is described together with the apparatus employed. A theoretical study established that the APA method can be used for determining concentrations as low as 10-11 M. A brief review of the reported amalgam polarographic techniques used in the determination of ultramicroconcentrations of elements in semiconducting materials in given. Orig. art. has: 5 figures, 1 table, and 15 formulas.

ASSOCIATION: Komissiya po analiticheskoy khimii, AN SSSR (Commission on Analytical Chemistry, AN SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC , QC

NO REF SOV: 026

OTHER: 000

Card 2/2

GORODSKAYA, G.I., MYAGKAYA, G.L.

Preliminary results of a study of bacterial proteoplasts [with summary in English]. Biul.eksp.biol. i med. 46 no.8193-97
Ag '58

(MIRA 11:10)

1. Iz otdela razvitiya zhivogo veshchestva (zav. - deystvitel'nyy Chlen AMN SSSR O.B. Lepeshinskaya) Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym. (SAIMONELIA, protoplast form. in Salmonella gallinarum (Rus))

BOKIY, G.B.; GOROGOTSKAYA, L.I.

Crystalline structure of chukhrovite. Dokl. AN SSSR 163 no.1:183-185
Jl '65. (MIRA 18:7)

1. Institut radiotekhniki i elektroniki AN SSSR. 2. Chlen-korrespondent
AN SSSR (for Bokiy).

GORODSKAYA, O. S.

RYZHKOV, V. V., SMIRNOVA, V. A., and GORODSKAYA, O. S. "On the Mechanism of the Inhibition of the Autoreproduction of Tobacco Mosaic Virus by Thiamine," <u>Biokhimiia</u>, vol.11, 1946, pp. 197-202, 385 B523.

SO: SIRA - SI. 90-53. 15 Dec. 1953

GORODSKAYA, O. S.

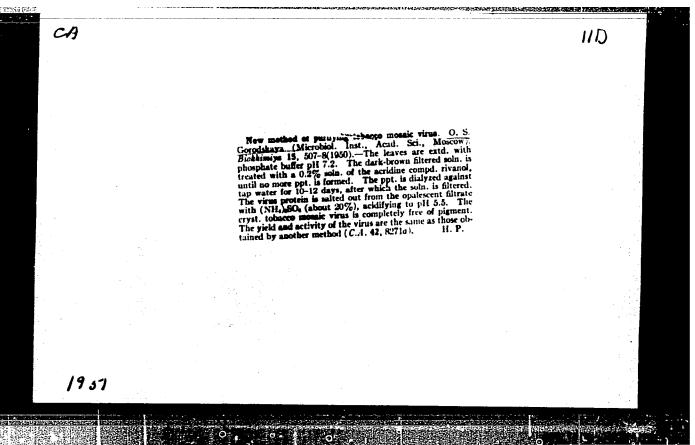
RYZHKOV, V. L., and GORODSKAYA, O. S., "The Biochemistry of 'Yellows' Type of Virus Disease of Plants," in Reports of the Scientific Research Work for 1945, Department of Biological Science, Publishing House of the Academy of Science USSR, Moscow, 1947, pp. 151-152. 511 Akl44

SO: SIRA SI-90-53, 15 Dec. 1953.

RYZHKOV, V.L.; SMIRNOVA, V.A.; GORODSKAYA, O.S.

Refrect of certain dyes on nucleoproteid of the tobacco mosaic virus. Biokhimiia, Moskva 15 no.3:222-229 May-June 1950. (CIML 20:7)

1. Laboratory of Viral Diseases of Plants, Institute of Microbiology of the Academy of Sciences USSR, Moscow.



RYJKOFF (V. L.) & GORDDERAYA (Mine O. S.). O dopemax docdoops a mineral approach, non-mineral it remains approach, and the forms of phosphorus in healthy, monsio-infected and starving Tobacco leaves.]—O. R. Acad. Sci. U.R.S.S., N.S., 70, 1, pp. 100-108, 1980.

In experiments carried out at the U.S.R. Institute of Sciences, Moncow, the phosphorus content of Samsun tobacco leaves [R.A.M., 23, p. 82] was determined colorimetrically by means of a photometer. There was a sharp increase of mineral phosphorus in starved leaves (tept in a desicance) at the expense of both the acid-soluble organic phosphorus and the nucleoprotein fraction, including riloses nucleocacid. Mosaic infection of growing leaves and the accumulation of the virus nucleoprotein did not bring about an increase of phosphorus. Alkaline extracts from infected plants, in spite of the accumulation of the virus nucleoprotein and increased nitrogen, had less phosphorus than extracts from healthy plants.

B

L 17144-65 EWT(m)/EPF(c)/EWP(v)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 W#/RMACCESSION NR: AR4049276 S/0081/64/000/015/S040/S040

SOURCE: Ref. zh. Khimiya, Abs. 15S224

AUT! OR: Gorodskevich, A.I.

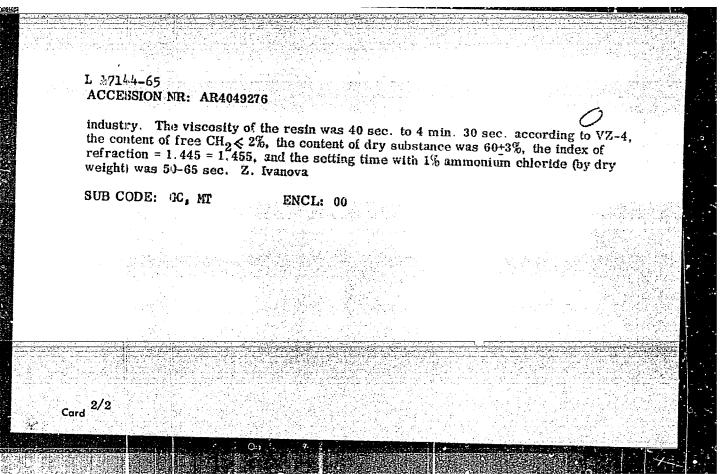
TITLE: Production of ureaformaldehyde resin M-60

CITED SOURCE: Mekhan. obrabotka drevesiny\*, sb. 31, 1963, 3-5

TOPIC TAGS: ureaformaldehyde resin, resin production, woodworking, resin application, resin property/ resin M-60

TRANSLATION: A process for the manufacture of urcaformaldehyde resin M-60 was perfected and the technology involved was described. The condensation process after addition of the components (urea, formalin, caustic soda, ammonium chloride) is carried out at 80C and a pH of 6.5-7.0. Moisture is then removed at 95-100C and the mixture is stirred for 1.5 hours. The temperature of the reaction mixture is then lowered to 70-75C and a sample is withdrawn from the reactor to determine viscosity. Concentration and the pH of the mixture. The reactor is then cooled down to 20-25C and the resin is drained by gravity flow through a filtration unit into an agitator-equipped storage container. The resin is used for veneering furniture components, in manufacturing chipboard, for gluing plywoods and in other operations of the woodworking

Card 1/2



GORODYSKIY, A.V. [Horodys'kyi, O.V.]; PANOV, E.V.; GRISHCHENKO, V.F. [Hryshchenko, V.F.

Method of reproducing stationary polarography in melts. Dop. AN URSR no.3:377-380 '63. (MIR' 17:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Predstavleno akademikom AN UkrSSR Yu.K. Delimarskim [Delimars'kyi, IU.K.].

DELIMARSKIY, Yu.K.; SHAPOVAL, V.I.; GORODYSKIY, A.V.

Measurement of Faraday impedance of the system Ni/Ni in a KG1-NaG1 fused mixture. Ukr. khim. zhur. 30 no.7:677-582 (MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

L 32069-65 EWT(m)/EWG(m)/T RWH ACCESSION NR: AP4047997

\$/0073/64/030/010/1060/1064

AUTHOR: Gorody\*skiy, A. V.; Panov, E. V.

TITLE: Oscillographic study of inter-electrode capacitance in fused salts for cells with small phase displacement

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 10, 1964, 1060-1064

TOPIC TAGS: oscilloscope, impedance measurement, capacitance measurement, fused K<sub>2</sub>CO<sub>3</sub> Li<sub>2</sub>CO<sub>3</sub> mixture, fused sait cell

ABSTRACT: A method of measuring impedance by an oscilloscopic technique was worked out which is independent of the phase angle of the system. This is done by placing a capacitor  $(C_0)$  and resistor  $(R_0)$  in series with the cell. (See fig. 1 of the Enclosure). A decrease in voltage in the cell  $(U_\chi)$  shows up in the vertical phase of the oscilloscope and a decrease in the standard voltage  $(U_0)$  shows up in the horizontal phase. A change in  $R_0$  leads to a corresponding change in  $U_\chi$  and  $U_0$  in phase. Thus  $C_\chi = U_0 C_0/U_\chi$  and  $R_\chi = U_\chi R_0/C_0$ . The instantaneous voltage

Card 1/3

L 32069-65

ACCESSION NR: AP4047997

drop in each of the two multiple resistances on the oscilloscope record can be expressed by

 $y' = a \sin(\varphi_0 + \omega t)$ ,

 $x' = b \sin(\varphi_0 + \omega t + \beta),$ 

where a and b are the amplitude values of the voltage drop across resistance,  $\varphi_a$  and  $\varphi_t$  +  $\beta$  are the corresponding phase displacements, t is time and  $\omega$  is cycling frequency. It was shown that if a = b, the resulting values are phase independent. These conclusions were tested on a fused K2CO3-Li2CO3 mixture at 550C. Capacitance of this system was measured using both smooth and porous electrodes, and results showed good agreement. Orig. art. has: 3 figures. 1 table and 13 equations.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN Ukrasminstitute of General and Inorganic Chemistry AN UkrSSR)

SUBMITTED: 14Aug63

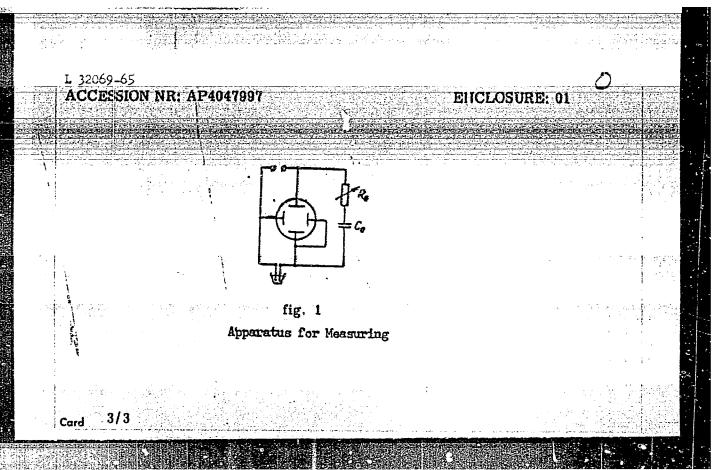
ENCL: 01

SUB CODE: EC, GC

NR REF SOV: 007

Card 2/3

OTHER: 007



GORODYSKIY. A.V.; PANOV, E.V.

Use of mechanically split pulses in electrochemical investigations.
Ukr.khim.zhur. 30 no.11:1158-1161 

64. (MIRA 18:2)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

GORODSKIY, D. A. (Prof.) (Dr Tech Sci)

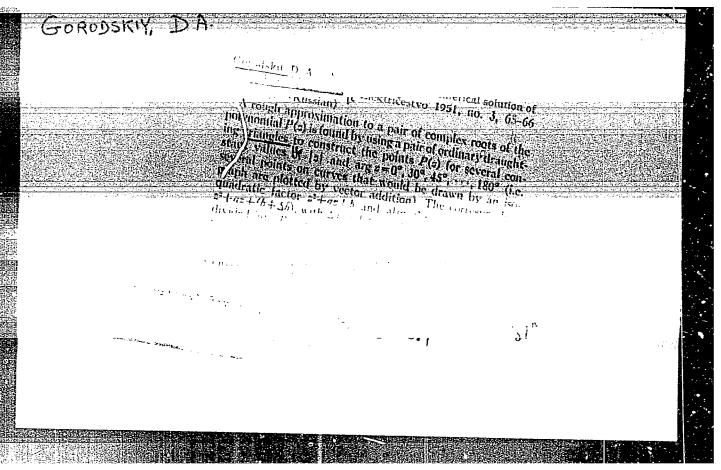
"Studies of the Conditions of Stability in cases of Frequency starting of asynchronous loads with large moments of inertia"

Avto i Tele IX, 6, 48

GORODSKIY, D.A.

42262 GORODSKIY, S.A. Tochnoye postroyeniye Krugovoy diagrammy asinkhronnogo dvigatelya. Trudy Mosk. energet. in-ta im Molotova, VYP. 3, 1 48, s. 59-69

SO: Letopis' Zhurnal' nykh Statey, Vol. 47, 1948



GORODSKIY, D.A., doktor tekhn. nauk, prof.

Investigation of the stability of a unit feeding an asynchronous load with a high moment of inertia. Vest. elektroprom. 27 no.8:39-46 Ag 156. (MLRA 10:9)

1. Mauchno-tekhnicheskiy institut Ministerstva elektrotekhnicheskoy promyshlennosti.

(Electric machinery)

BOTVINNIK. M.M., professor, doktro tekhnicheskikh nauk; KARPOLI, E.M., inzhener: GORODSKIY D.A., professor, doktor tekhnicheskikh nauk; SAZONOVA, Z.K., inzhener.

Experimental investigation of the operation of synchronous machines having longitudinal and lateral excitation. Vest.elektroprom. 28 no.2:28-31 F 57. (MIRA 10:3)

1. TSentral'naya nauchno-issledovatel'skaya elektrotekhnicheskaya laboratoriya Ministerstya elektrostantsiy (for Botvinnik and Karpel') 2. Mauchno-issledovatel skiy institut Ministerstva elektropromyshlennosti (for Gorodskiy and Sazonova) (Electric generators)

MRL'NIKOV, N.A., dots.; KAZOVSKIY, Ye.Ya., kand.tekhn.nauk; FAZYLOV, Kh.F., doktor tekhn.nauk, prof.; GORODSKIY, D.A., doktor tekhn.nauk, prof.; GORODSKIY, D.A., doktor tekhn.nauk, prof.; KHOIMSKIY, V.G., doktor tekhn.nauk, prof.; CHIZHENKO, I.M., kand.tekhn.nauk; MAMIKONYANTS, L.G., kand.tekhn.nauk; TSUKERNIK, L.V., kand.tekhn.nauk.

Regulating the reactive power with the aid of controlled valves. Vest.elektroprom. 28 no.12:65-71 D '57. (MIRA 10:12)

1. Institut elektromekhaniki AN SSER (for Kostenko, Zavalishin, Glebov). 2. Vsesoyusnyy saochnyy energeticheskiy institut (for Mel'nikov). 3. Zavod "Elektrosila" (for Kasovskiy). 4. Institut energetiki AN USSER (for Fasylov). 5. Nauchno-issledovatel'skiy institut elektrotekhnicheskoy promyshlennosti (for Gorodskiy). 6. Kiyevskiy politekhnicheskiy institut (for Kholmskiy, Chishenko). 7. Tšentral'naya nauchno-issledovatel'skaya elektrotekhnicheskaya laboratoriya Ministerstva elektrostantsiy (for Mamikonyants). 8. AN SSSER (for Tšukernik).

(Electric generators)

GORODSKIY D. A.

**AUTHORS:** 

Alekseyev, A. Ye., Atabekov, G. I., 105-58-6-29/33 Bron, O. B., Gorodskiy, D. A., Kostenko, M. P., Kurenev, S. I., Neyman, L. R., Polivanov, K. M., Reyngol'dt, Yu. A., Romanovskiy, V. B.

TITLE:

Professor A.Ye. Kaplyanskiy (Professor A.Ye. Kaplyanskiy)

PERIODICAL:

Elektrichestvo, 1958, Nr 6,pp. 92-92 (USSR)

ABSTRACT:

On the occasion of his 60-th birthday. He was born on May 27, 1898. In 1925 Aleksandr Yevseyevich Kaplyanskiy, Doctor of Technical Sciences, Professor of the Leningrad Military-Air-Engineering Academy graduated from the Leningrad Institute for Electrical Engineering with a gold medal, then he worked in the factory "Krasnaya nit' " and later, until 1932, in the factory "Elektrosila". He planned and constructed the new system for the electric supply of the factory and a number of test stations, among them stations for asynchronous motors and turbogenerators up to 100 MW. In 1925 he began his pedagogical activity in the field of theoretical electrical engineering at the Leningrad Institute for Electrical Engineering. Later he also taught at the Institute for Electrical Engineering for Telecommunication En-

Card 1/2

Professor A.Ye. Kaplyanskiy

105-58-6-29/33

gineers, at the Institute for Railroad Engineers, at the Military-Air-Engineering-Academy, at the Institute for Water Transport Engineers. In these institutes he organized and directed the chairs for the theoretical principles of electrical engineering. - He wrote about 60 printed works. A number of his works are devoted to the theory of inverse and nonlinear circuits and to electromechanical analogies. In 1938 he took doctor's degree. He made many inventions in various fields of electrical engineering. He worked out universal alternating current apparatus which are used everywhere at present. In 1957 he edited a textbook "A Method of Teaching the Theoretical Principles of Electrical Engineering". In January 1958 the All Union Scientific Conference of Methods on the Theoretical Principles of Electrical Engineering was organized and carried out at his suggestion. There is 1 figure.

1. Electrical engineering--USSR 2. Scientific personnel--USSR

Card 2/2

AUTHORS: 1)Gorodskiy, D. A., Professor, Doctor SOV/105-58-9-19/34

of Technical Sciences, Volchkov, I. Ye., Engineer

2) Ivanov-Smolenskiy, A. V., Docent, Candidate of Technical

Sciences

3) Veretennikov, L. P., Docent, Candidate of Technical Sciences, Barinov, N. G., Docent, Candidate of Technical Sciences, Babushkin, M. N., Candidate of Technical Sciences

Potapkin, A. I., Engineer

(Leningrad)

TITLE: Dynamic Models of Power Systems ( dinamicheskikh modelyakh

energosistem)

PERIODICAL: Elektrichestvo, 1958, Nr 9, pp 80 - 82 (USSR)

ABSTRACT: Remarks concerning the paper by I.S.Bruk in Elektrichestvo,

1958, Nr 2. 1) According to the paper, the methods of using mathematical and physical models are contrary to each other. It is shown here that this is not correct and that a reasonable coordination of the two methods should rather be aimed at. 2) The author follows the opinion of M.P.Kostenko, V.A.Venkov and N.N.Shchedrin,

Card 1/2 and points out that for investigating transients in

Dynamic Models of Power Systems

SOV/105-58-9-19/34

electric power systems one should combine the results gained with dynamic models with those obtained by the use of electronic digital computers. 3) The authors ask for a combined use of dynamic models and computers. They show that even in such fields where digital computers prevail, one cannot do without dynamic models. There

ASSOCIATION:

1) Nauchno-issledovatel'skiy institut elektrotekhnicheskoy promyshlennosti (Scientific Research Institute of Electrical Institute for Power Engineering)

Card 2/2

GORODSKIY, DA.

110-1-3/19

Gorodskiy, D.A., Doctor of Technical Sciences, Professor AUTHOR:

TITLE: Characteristics of Double-fed Asynchronous Generators Operating in Parallel with a System (Kharakteristiki

asinkhronnykh generatorov dvoynogo pitaniya, rabotayushchikh

s set'yu)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol.29, No.1, pp. 8 - 14 (ÚSSR).

ABSTRACT: In 1935, Prof. A.A. Gorev proposed an a.c. generator with two perpendicular field windings on the rotor fed by voltages proportional to the sine and cosine of the angle between the axis of one of the windings and the voltage vector of the stator circuit. When such a rotor runs at asynchronous speed, the machine is fed by two voltages of slip frequency in quadrature. The rotor currents set up a magnetic field that rotates at slip frequency relative to the rotor and, therefore, at synchronous speed relative to the stator. The rotor of such a machine can run at any speed but the stator e.m.f. will always be that of the system to which it is connected. A machine with a three-phase rotor can be built on the same principle and supplied with three-phase alternating current of slip frequency.

Cardl/3 practical difficulty is the production of very-low-frequency

。 中央上海市的大型。 中央上海市的

Characteristics of Double-fed Asynchronous Generators Operating 110-1-3/19

alternating current. Moreover, the frequency must be controlled to exactly the slip value. Ways of overcoming the difficulty are discussed. The application of the theory of a doubly-fed machine to this case is considered. In the case of a machine with two perpendicular windings, it is best, when making a three-phase circuit. Expressions are then derived for currents and powers of an asynchronous generator using the general equations of a three-phase machine with symmetrical stator and rotor windings. Expressions are obtained for the stator and The voltage delivered to the rotor must be of the right frequency and phase. Fundamental considerations concerning the formation of such a voltage are explained. Expressions are then derived for the voltages applied to the rotor. To obtain the characteristics of the double-fed machine, the

expressions for stator and rotor current and power are rewritten to include the slip. The expression for the power is rather complicated but can be simplified by ignoring the ohmic resis-

The characteristics of a machine working on busbars of infinite Card2/3

Characteristics of Double-fed Asynchronous Generators Operating in Parallel with a System

capacity are then considered. A preliminary calculation is made of the characteristics of a system on the assumption that it is possible to construct a generator with the same characteristics as those of existing generators. Appropriate values of reactances, voltage, and so on, are selected and the corresponding characteristics are plotted in Fig.8. These show that if it could be built, a machine of this kind would deliver more than the rated power, though the theoretical value would not be achieved because of practical difficulties in arranging the rotor windings. Nevertheless, the calculations show that the potential advantages of asynchronous generators are very great. A number of design variants will have to be worked out before a final judgment about them can be made. Questions of stability are briefly considered and it is recommended that the system be studied further. A possible variant, using a commutator machine, is illustrated in Fig.9. There are 9 figures and 3 Russian references.

ASSOCIATION: NII EP

SUBMITTED:

March 7, 1957

AVAILABLE:

Library of Congress

۵۶/۶

GORODSKIY, D.A., doktor tekhn. nauk, prof. (Moskva)

Redequates in presenting the theoretical principles of electrical engineering. Elektrichestvo no.5176-79 My 163.

(MIRA 16:7)

(Electric engineering—Study and teaching)

SYROMIATNIKOV, I.A., doktor tekhn. nauk, prof.; LITVAK, L.V., kand. tekhn. nauk; BOTVINNIK, M.M., doktor tekhn. nauk; GORODSKIY, D.A., doktor tekhn. nauk

Concerning [kand. tekhn. nauk] N.R. Ipatenko's article
"Automatic excitation control of a synchronized induction
motor." Elektrotekhnika 34 no.11:70-72 N '63.

(MIRA 17:2)

GORODSKIY, D.A., doktor tekhn.nauk, prof.

Can a multiturn unipolar machine be built? Elektrotekhnika 35 no.2:60 F '64. (MIRA 17:3)

CORODSKIY, D.A., doktor tekhn. nauk, prof. (Moskva)

Nature of the self-excitation of a synchronous machine with a capacitive load. Elektrichestvo no.1:65-66 Ja '65.

(MIRA 18:7)

GORODSKIY, D.A., doktor tekhn. nauk, prof.

The question remains open. Elektrotekhnika 36 nc.5:64 My 165.
(MIRA 18:5)

#### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516310005-0

ANDRIANOV, V.N.; BUIZKO, I.A.; VENIKOV, V.A.; DEMIN, A.V.; GORODSKIY, D.A.;
GRUDINSKIY, P.G.; ZAKHARIN, A.G.; KRASNOV, V.S.; LEVIN, M.S.; LISTOV,
P.N.; MARKOVICH, I.M.; MEL'NIKOV, N.A.; NAZAROV, G.I.; RAZEVIG, D.V.;
SMIRNOV, B.V.; STEPANOV, V.N.; SYROMYATNIKOV, I.A.; FEDOSEYEV, A.M.;
YAKOBS, A.I.

Doctor of technical sciences, Professor Lev Efimovich Ebin, 1905-; on his 60th birthday. Elektrichestvolno.6:91 Je '65.

(MIRA 18:7)

303£1 s/029/60/000/05/12/024 B008/B017

3,5000 AUTHOR:

If the People of All Countries ... . The Radiant Ring of Gorodskiy, M., Engineer

the Planet TITLE:

PERIODICAL: Tekhnika molodezhi, 1960, No. 5, pp. 23-24

TEXT: This is one of the articles announced in No. 2 of this periodical under the title "If the People of all Countries..." on a project of international importance. It is the project submitted by the mathematician and engineer M. Gorodskiy (Fig. p. 24) on June 1, 1958. The project provides for a change of climatic conditions on the earth. The author who in 1929 graduated from the matematicheskoys otdeleniye Leningradskogo universiteta (Department of Mathematics of Leningrad University) and in 1939 from the gidrotekhnicheskiy fakulitet Politekhnicheskogo instituta (Hydrotechnical Department of the Polytechnic Institute) issued numerous papers on hydrotechnology. During the last ten years, he cooperated in the construction of the Kuybyshevskaya elektrostantsiya (Kuybyshev Power Plant) and the Volgo-Baltiyskiy kanal (Volga-Baltic Canal). At present, he works

Card 1/3

80651

If the People of All Countries .... . The Radiant Ring of the Planet

S/029/60/000/05/12/024 B008/B017

as a mathematician at a scientific research institute. The present project is based on the utilisation of solar energy. It differs from that suggested 30 years ago by G. Obert, which has been forgotten, by the fact that no mirrors but an artificial dust cloud is to be used to capture the sun rays. To capture the solar energy necessary for heating the earth, a disk-shaped dust ring consisting of metallic potassium should be produced around the earth. In this connection, two main conditions are to be observed: The movement (rotation) of the upper and the lower boundary of the ring must have the same velocity. For this reason, the artificial dust ring should run over poles for a long time. Furthermore, a collision of dust particles should be avoided by placing the ring into a circular orbit. On its movement around the earth, the ring should assume such a position as to face the sun with its broad side during solstice, and with its edge during equinoxes. The lower rim of the ring should be at an altitude of 1200 km, and the upper rim at 10,000 km. Total weight of this ring should be 1,750,000 t. Artificial satellites (snaryadysputniki) could be used to produce this ring which are launched with the aid of centrifugal force. By means of 5 such devices, the artificial dust ring could be completed within 4 years. After completion of the ring, the

Card 2/3

If the People of All Countries.... . The Radiant Ring of the Planet

S/029/60/000/05/12/024 B008/B017

70701

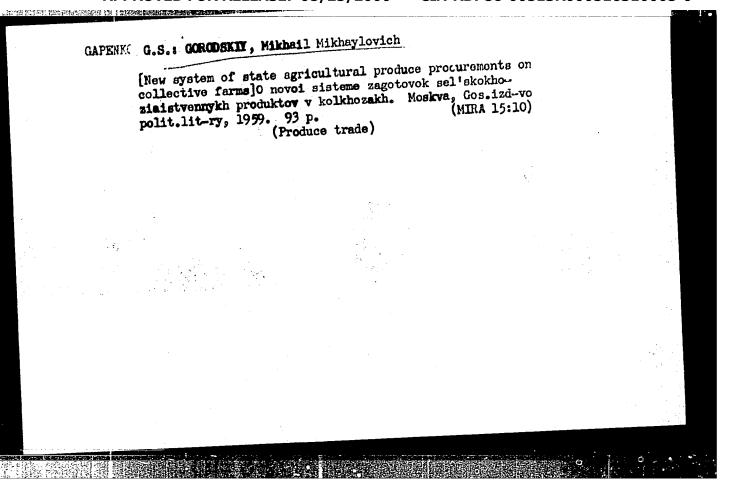
climatic conditions would change in such a way that summers would turn hotter, and winters warmer. There would hardly be any difference between the three seasons fall, winter, and spring. In June 1959, the editors received another project signed by Engineer Cherenkov which was similar even in its details. It differs from the present project only by the fact that for creating the ring Cherenkov suggests rockets instead of satellites, and that besides the heating of the northern hemisphere also a more intensive illumination of the earth's surface is intended. There are 2 figures.



Card 3/3

#### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516310005-0



TORRUSTIC, A.F.

BELYATSKAYA, R.G.; GINTSBURG, Ya.S.; DAMOVICH, D.M.; GOMODSKOY, K.P., red.;
YUZHAYA, Ye.A., red.imdatel'stva; SOSNIN, A.P., tekhn.red.

[Hot minc plating of light sheet steel and utensils] Goriachee otsinkovanie krovel'noi stali i posudy. Moskva, Gos.izd-vo meetnoi promyshl. RSFSR, 1956. 179 p. (MIRA 10:12)

(Zinc plating)

ACCESSION NR: AP3001776

\$/0188/63/000/003/0075/0080

AUTHOR: Gorodtsov, V. A.

TITIE: Quantum field theory model with n fixed fermions

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 3, 1963, 75-80

TOPIC TAGS: quantum field theory, fixed fermion model, quantized boson field model, non stationnary processes, n nucleon quantum field model, pi N interaction

ABSTRACT: The fixed fermion model of field theory is considered in which the nucleons (fermions) exchange mesons (bosons) without experiencing recoil and appear in the theory as fixed sources of a quantized boson field. Secondary quantization of the boson field is taken into account. The model permits analysis of nonstationary processes; using the concept of boson number. An equation is derived for a system of n fixed nucleons and neutral scalar mesons (pseudoscalar mesons are also considered). The equation is solved for the n-nucleon problem, and single-nucleon renormalization conditions are shown to hold. The results do not depend on the renormalization constant. The interaction potential of n nucleons is then derived. Orig. art. has: 40 equations.

Card 1/2

ACCESSION NR: AP3001776

ASSOCIATION: Kafedra elektrodinamiki i kvantovoy teorii (Department of Electrodynamics and Quantum Theory)

SUBMITTED: 16Oct62 DATE ACQ: O9Jul63 ENCL: O0

SUB CODE: PH NO REF SOV: O05 OTHER: OOO

BARENBLATT, G. I.; GORODTSOV, V. A.

"On the local structure of the developed plastic flow."

report submitted for llth Intl Cong of Theoretical & Applied Mechanics & General Assembly, Munich, 30 Aug-5 Sep 64.

ACCESSION NR: AP4027591

s/0040/64/028/002/0326/0334

AUTHORS: Barenblatt, G. I. (Moscow); Gorodtsov, V. A. (Moscow)

TITLE: Structure of microstress field of extended plastic flow

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 2, 1964, 326-334

TOPIC TAGS: microstress, plastic flow, solid medium, ideal plastic body, homogeneity, isotropy, polycrystal, microinhomogeneity, random stress field, stress-deformation, linear elasticity

ABSTRACT: The authors find the spectral densities of the energy of form change and volume deformation to within constant dimension factors. In extended plastic flow there is a collection of microstresses with measurements from L<sub>1</sub> up to a dimension of order of the average dimension of a grain d and less. The microstress field has the property of local isotropy and homogeneity. In an elastic interval of measurements and wave numbers the authors obtain an expression for the structure tensor of the microstress field and the spectral representation of the correlation tensor to within two universal constants. The results show that the idea of local isotropy and homogeneity and the cascade hypothesis, set forth by Kolmogorov in turbulence and homogeneity and the cascade hypothesis, set forth by Kolmogorov in turbulence theory, are of great value for a wide class of nonlinear distributed systems with

ACCESSION NR: AP4027591

dissipation. "The authors are deeply grateful to A. S. Monin for his valuable advice and R. L. Salganik: for his useful discussions." Orig. art. has: 38 formulas.

ASSOCIATION: none

SUBMITTED: 20Dec63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: AP

NO REF SOV: 005

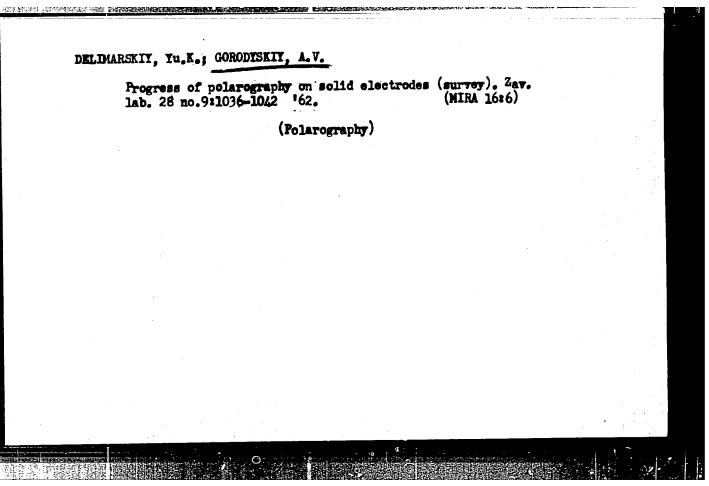
OTHER: 002

Card 2/2

CHISTOVICH, G.N.; GORODIEKAYA, E.A.; KOENILOBA, N.M.; MOISEYEVA, N.I.;
POLOEOVA, T.V.; Tale T. 1812, T.A.; SHOSHIMA, S.V.

Man as carrier of pathogennic staphylococci; anthor's abstract.

Zhnr.mikrobiol.spid.i iman. no.11:55-56 H '53. (MLRA 7:1)
(Staphylococcus) (Contagion and contagious diseases)



	66 EWT(m)/EWP(1)/EWP(t)/EWP(b) JD  R: AF5022037 SOURCE CODE: UR/0286/65/000/014/0104/0104	
	RS: Delimarskiy, Yu. K.; Gorodyskiy, A. V.; Bykova, M. I.	
	none  : A method for electrolytic cadmium-plating. Class 48, No. 173087	
SOUR	E: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 104	1
	TAGS: cadmium, electrolysis, electrolyte, metal plating, cadmium chloride, m chloride	
plat	ACT: This Author Certificate presents a method for electrolytic cadmium- ng. To prevent hydrogenation and formation of dense sediments capable of adhesion to the base metal, the deposition from cadmium chloride and sodium	
firm chlo	ide is employed at the current density on the order of 100 a/dm <sup>2</sup> and the rature of 420-450C.	1
firm chlo temp	ide is employed at the current density on the order of 100 a/dm and the rature of 420-450C.  ODE: MM/ SUBM DATE: 24Dec62/ ORIG REF: 000/ OTH REF: 000	

GORODYSKIY, A. V.

"The Kinetics of Cathode Processes Occurring During Polarography on Solid Electrodes." CandChem Sci, Inst of General and Inorganic Chemistry, Acad Sci Ukrainian SSR, Kiev, 1954. (KL, No 9, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

AUTHORS:

Gorodyskiy, A. V. and Delimarskiy, Yu. K., Member 20-114-6-34/54

of the AN Ukrainian SSR

TITLE:

The Equation of an Unsteady Diffusion Toward a Stationary Electrode (Uravneniye nestatsionarnoy diffuzii k nepod-

vizhnomu elektrodu)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 114, Nr 6, pp. 1261-1264 (USSR)

ABSTRACT:

It is considered an established fact that the diffusion of a reacting substance in the direction to a stationary electrode is determined by 2 conditions: 1) the concentration of this substance  $c_0$  until switching in the current is the same in the entire mass of the electrolyte; 2) the ionic concentration at the surface of the electrode at a certain moment t after switching in the current is equal to zero (references 1-5). In other words, the following conditions apply to the linear diffusion:  $c(x,0) = c_0(1)$  and  $c(t,0) = c_0(1)$ , whereas  $c(t,0) = c_0(1)$  and  $c(t,0) = c_0(1)$  and  $c(t,0) = c_0(1)$  apply to the spherical diffusion: (x and r are coordinates, rother radius of a sparking ball). Based on this, general equations (5) for both kinds of diffusion are solved  $c(t,0) = c_0(1)$ . As the conditions (1) - (4) do not take into account the convection of the electrolyte, equations (6)

Card 1/4

The Equation of an Unsteady Diffusion Toward a Stationary Electrode

20-114-6-34/54

and (7) are only correct for stationary (gelatinized) solutions (reference 2). Under ordinary conditions of electrolysis the amperage after closing the circuit drops to an attained value (references 2,3,6,7) and further remains constant in contrast to equations (6) and (7). From this follows that the diffusion process of the reacting substance in the course of time attains a certain stationary state to which a constant concentration-gradient of the diffusing substance at the surface of the electrode corresponds. On this occasion a constant thickness of the diffusion layers is apparently attained at the outer boundary of which a practically constant concentration co is maintained (in accordance with references 8,9). From this follows an additional boundary condition of the diffusion of the reacting substance in the direction to the stationary electrode: in some distance  $\ell$  or p -  $r_0$  from the electrode the concentration of this substance is maintained constant and equal to  $c_0$ . Thus  $c(1,t) = c_0(8)$  applies to the linear diffusion and  $c(p,t) = c_0(9)$  to the spherical. According to conditions (1),(2),(8) and (3),(4),(9) the solution of equation  $\frac{\partial c}{\partial t} = a\Delta c$  (5) by means of the integral

Card 1/4

20-114-6-34/54

The Equation of an Unsteady Diffusion Toward a Stationary Electrode

by Laplace for the linear diffusion yields:

by Laplace for the linear exp 
$$\left(\frac{\partial c}{\partial x}\right)_{x=0} = \frac{c_0}{\ell} \left[1 + 2\sum_{k=1}^{\infty} \exp\left(-\pi^2 k^2 \frac{at}{\ell^2}\right)\right]$$
 (10)

and for the spherical diffusion:
$$\frac{\partial \mathbf{r}}{\partial \mathbf{r}}\Big|_{\mathbf{r}=\mathbf{r}_0} = \frac{\mathbf{r}_0}{\mathbf{r}_0} + \frac{\mathbf{r}_0}{\mathbf{r}_0-\mathbf{r}_0} \begin{bmatrix} 1 + 2 \sum_{k=1}^{\infty} \exp\left(-\frac{2}{\pi}k^2 \frac{\mathbf{s}t}{\mathbf{r}_0-\mathbf{r}_0}\right)^2\right) \\ + 2 \sum_{k=1}^{\infty} \exp\left(-\frac{2}{\pi}k^2 \frac{\mathbf{s}t}{\mathbf{r}_0-\mathbf{r}_0}\right)^2\right) (11)$$

The derived rules were checked by the authors on the current-time curves in the case of mercury-separation at a stationary spherical mercury cathode as well as in the case of silver-separation at a stationary flat silver cathode, furthermore by means of the data of other authors (references 2,3,7). The electrolyte was not stirred. The curves i = f(t) obtained by the authors and other researchers, where i is density of the diffusion current, were investigated in coordinates t, lg(i - io), where io is the density of the current that became constant, ie. at t=0. Figure 1 gives examples of such curves. In all cases a linear dependence of t on lg(i - ic) was observed. This

card 3/4

The Equation of an Unsteady Diffusion Toward a Stationary

20-114-6-34/54

Electrode

confirms the correctness of the assumptions made by the authors. There are 1 figure, and 9 references, 6 of which

are Slavic.

ASSOCIATION:

Institute for General and Anorganic Chemistry AS USSR

(Institut obshchey i neorganicheskoy khimii Akademii

nauk SSSR)

SUBMITTED:

September 17, 1956

Card 4/4

AUTHORS:

Delimarskiy, Yu. K., Gorodyskiy, A.V.SOY76-32-6-24/46

TITLE:

The Equation for the Polarographic Curves of the Electrodeposition of Metals on Solid Electrodes

(Uravneniye polyarograficheskikh krivykh elektroosazhdeniya

metallov na tverdykh elektrodakh)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 6,

pp. 1348-1353 (USSH)

ABSTRACT:

Heyrovsky and Ilkovich (Ref 2) advocated an equation for the description of polarographic curves of dropping mercury electrodes, while Ye. M. Skobets (Ref 3) showed that it can also be used in the case of solid amalgamated electrodes. Yu. K. Delimarskiy and I DPanchenko (Ref 4) proved that it may also be used for solid electrodes at high temperatures. Since at usual temperatures no particular diffusion is to be assumed within the solid not amalgamated electrodes the equation by Kol'tgof and Lingeyn (Ref 5) took into account only the concentration polarization, while Le Blanc (Ref 6) found also in this case the existence of an electrochemical polarization. Proceeding from the theory of A. N. Frumkin

Card 1/3

The Equation for the Polarographic Curves of the SOV/76-32-6-24/46 Electrodeposition of Metals on Solid Electrodes

and his school (Ref 7) an equation is elaborated which takes into account both kinds of polarization, and which is analogous to that by Frumkin concerning the polarograms of hydrogen cleavage. The correctness of the equation is proved by experiments of the electric deposition of copper, cadmium, zinc and nickel on platinum electrodes; the small deviations noticed at lower voltages are explained by the influence of the reversible ionization process. Besides, data obtained by Ye. M. Skobets and S. A. Kacherova (Ref 9), Ye. M. Skobets, P. P. Turov and V. D. Ryabokon' (Ref 10), I. D. Panchenko (Ref 11), I.L. Abarbatchuk and L. I. Koval'skiy (Ref 12) and S. K. Chirkov (Ref 13) are investigated and thus the correctness of the equation is proved. There are 10 figures and 13 references, 11 of which are Soviet.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii, Kiyev (Kiyev, Institute of General and Inorganic Chemistry)

SUBMITTED:

February 16, 1957

Card 2/3

The Equation for the Polarographic Curves of the SOV/76-32-6-24/46 Electrodepositon of Metals on Solid Electrodes

- 1. Metals--Electrodeposition 2. Mercury electrodes--Polarographic analysis
- 2. Mathematics -

Card 3/3

GORODYSKIY A.V.

SOV/21-59-9-15/25

AUTHOR:

Horodys'kyy, O.V.

TITLE:

Low-Frequency Polaroscopy

PERIODICAL:

Dopovidi Akademiyi nauk Ukrayins'koyi RSR, Nr 9,

1959, pp 995-997 (USSR)

ABSTRACT:

The article presents a method for obtaining reproducible polarograms on the oscillograph screen using solid electrodes. The method is based on a rational selection of time, that is the time of polarization, and has been tested by polarographing fused metal chlorides on a platinum electrode. During this process, the electrodes do not undergo any periodical changes. The reproduction of polarograms is accurate. The scheme is shown by drawing Nr 1, whereby A stands for motor; r<sub>1</sub> - potentiometer; 1 - platinum cathode; 2 - platinum electrode; R<sub>n</sub> - large resistance; 7<sub>1</sub> -

Card 1/3

amplifier; R<sub>e</sub> - standard resistance; 3 - comparative

Low-Frequency Polaroscopy

SOV/21-59-9-15/25

platinum electrode;  $\Pi_2$  - amplifier; M - relay; K<sub>1</sub> - contact;  $\mathcal{J}$  - time relay;  $\mathcal{B}$  - cothode voltmeter; and MK $\alpha$  - microammeter. The anode polarization is eliminated by using an unpolarized comparative electrode. The scheme permits obtaining of dependencies i  $\mathcal{I}$ ;

 $\varphi,t$ ; i,t;  $\frac{d\varphi}{di}$  i;  $\frac{d\varphi}{di}$   $\varphi$ .

whereby  $\mathbf{f}$  means potential of cathode 1 and  $\hat{\mathbf{c}}$  - linearly alternated current. The time of polarization is ten seconds. There are 2 drawings.

ASSOCIATION:

Instytut zahal'noyi ta neorhanichnoyi khimiyi AN URSR (Institute of General and Inorganic Chemistry

Card 2/3

of the AS of UkrSSR)

5(4)

SOV/76-33-1-22/45

AUTHORS:

Delimarskiy, Yu. K., Gorodyskiy, A. V.

TITLE:

On the Question of Decomposition Potentials of Electrolytes (K voprosu o napryazhenii razlozheniya elektrolitov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 1,

pp 137 - 140 (USSR)

ABSTRACT:

Investigations of the question mentioned in the title were first carried out by Helmholtz (Gel'mgol'ts)(Ref 1) and commented by Le Blanc (Leblan) (Refs 2,3). Be Blanc's assumption, however, that under a decomposition potential of a given electrolyte no electrolysis can take place, contradicts modern ideas on the nature of electrode processes (e.g. excess-potential). Since the decomposition point assumed by Le Blanc is not related to any certain potential any point of the diagram current-potential may be used. Thus there is no basic difference between ordinary and residual current. The fundamental mistake in Le Blanc's ideas is the assumption that ions of a certain type are

Card 1/2

completely equal with respect to energy. The Boltzmann

On the Question of Decomposition Potentials of Electro- SOV/76-33-1-22/45 lytes

(Bol'tsman) statistics, however, can be applied to the ions (and gas molecules). The electrolyte cell Pt/KCl/Pt is considered from this point of view and the statements are confirmed in contradiction to Le Blanc's assumptions, that no definite value exists up to which the electrolysis cannot be carried out. There are 2 figures and 12 references, 9 of which are Soviet.

ASSOCIATION:

Akademiya nauk USSR, Institut obshchey i neorganicheskoy khimii, Kiyev (Academy of Sciences, UkrSSR; Institute of

General and Inorganic Chemistry, Kiyev)

SUBMITTED:

July 1961957

Card 2/2

DELIMARSKIY, Yuriy Konstantinovich; GORODISTIY, Aleksendr Vladimirovich;
NATANSON, E.M., doktor khim.nauk, otv.red.; ZAVIRTUKHINA, V.N.,
red.izd-va; MILEKHIN, I.D., tekhn.red.

[Electrode processes and investigational methods in polarography]
Elektrodnye protessy i metody issledovaniia v poliarografii.
Kiev. Isd-vo Akad, nauk USSR, 1960. 293 p. (MIRA 13:11)

(Polarography) (Electrochemistry)

DELIMARSKIY, Yu. K.; GORODYSKIY, A. V.; KUZIMOVICH, V. V.

. .

Chronopotenticmetric determination of diffusion coefficients in melts. Coll Cs Chem 25 no.12:3056-3060 D \*60.

(EEAI 10:9)

1. Institut obschey i neorganicheskoy khimii, Akademiya nauk Ukrainskoy SSR, Kiev.

(Chronopotetiometry) (Diffusion)

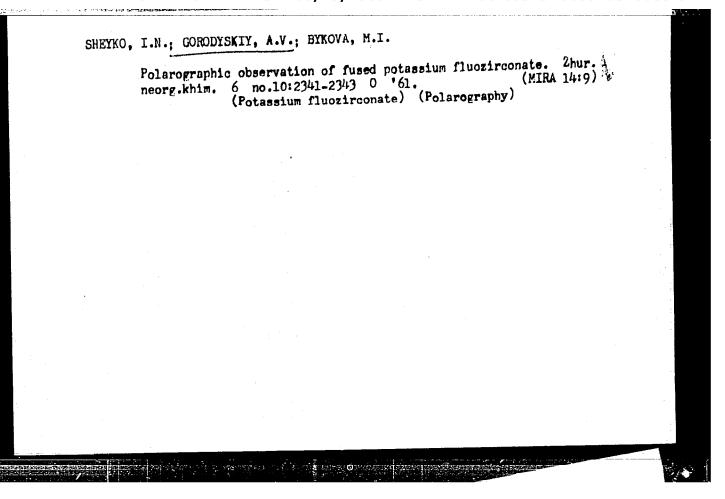
GORODYSKIY, A.V.

# PHASE I BOOK EXPLOITATION SOV/4888

- Delimarskiy, Yuriy Konstantinovich, and Aleksandr Vladimirovich Gorodyskiy
- Elektrodnyye protsessy i metody issledovaniya v polyarografii (Electrode Processes and Methods of Analysis in Polarography) Kiyev, Izd-vo AN Ukr. SSR, 1960. 293 p. 3,000 copies printed.
- Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut obshchey i neorganicheskoy khimii.
- Resp. Ed.: E. M. Natanson, Doctor of Chemical Sciences; Ed. of Publishing House: V. N. Zaviryukhina; Tech. Ed.: I. D. Milekhin.
- PURPOSE: This book is intended for students, aspirants and teachers in the chemical divisions of schools of higher education, and for scientists and skilled workers at plant laboratories.
- COVERAGE: The authors review the present state of polarography and discuss techniques for the polarography of

Card 1/15

## Electrode Processes (Cont.) SOV/4888 organic and inorganic substances. Polarographic equipment, new polarographic methods, polarographic techniques with solid electrodes, the polarography of melts, and the kinetics of polarographic electrode processes are also considered. No personalities are mentioned. References follow each chapter. TABLE OF CONTENTS: Foreword 3 Introduction 5 Bibliography 7 Ch. I. Principles of Polarography 1. The principle of polarographic investigations 2. Residual current 10 13 Card 2/15



```
5/073/61/027/006/003/005
e, with
                                                                                               B110/B147
                             Sheyko, I. N., Gorodyskiy, A. V., Kuzimovich, V. V.
                               Polarography of molten systems containing zirconium compounds
       PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 27, no. 6, 1961, 767 - 770
        5. LT00
         TEXT: Molten Zr compounds were studied polarographically to obtain some
      AUTHORS:
          TEXT: Molten Zr compounds were studied polarographically to obtain automatic data on the electrolytic deposition of Zr from melts. An automatic data on the electrolytic deposition of Zr from melts.
          uava on the electrolytic deposition of Zr from melts. An automatic the polarograph with solid stationary electrodes with depolarization of melts and stationary electrodes between the exposures by short-circuiting was used.
           polarograph with solid stationary electrodes with depolarization of the electrodes between the exposures by short-circuiting was used. A 5 m electrodes between the exposures by short-circuiting was 2500 mm<sup>2</sup> Pt disk long and 0.5 mm thick Pt wire served as cathode while a court and one of the melt was in a porcelain crucible in a quartz was taken as anode. The melt was in a porcelain crucible in a court was taken as anode.
       TITLE:
             long and 0.5 mm thick Pt wire served as cathode while a 2500 mmc Pt discount of the melt was in a porcelain crucible in a quartz was taken as anode. Molten systems of K 7rF. 7rCl and 7 test tube in an Ar atmosphere.
             was taken as anode. The melt was in a porcelain crucible in a quartz zr0_2 zrc1_4, and zr0_2 test tube in an Ar atmosphere. Molten systems of zrc1_4,
              were investigated, molten equimolar mixture of KCl and NaCl being used as a background. Two waves were found in the nolarogram of k 7.F. with > 2.5
               were investigated, molten equimolar mixture of KCl and NaCl being used as 2-5 a background. Two waves were found in the polarogram of K2TF6
                mole% concentration, which indicate the presence of transformation products
                 of electrolytic dissociation of K_2ZrF6° \times K^+ + (F^-)_X° ZrF_4C(KF)_X° ZrF_4C
                  Card 1/3
```

30871 s/073/61/027/006/003/005 B110/B147

Polarography of molten systems...

 $Z(KF)_{x} \cdot ZrF_{y}^{(4-y)+} + (4-y)F$ , where (y = 0 + 4). Small amounts of a transformed form (TF) of K2ZrF6 cause the occurrence of waves in the  $\mathcal{Q}_{b}$ polarograms of pure K2ZrF6 and react on the electrode at lower voltages. Discharge of TF can only be effected by low current densities. An additional increase of voltage causes separation of alkali metal or Zr, or reduction of the original form (OF) of K2ZrF6 to Zr metal. It was possible to observe OF waves on a background of alkali metal when polarographing dilute K2ZrF6 melts (0.1%). Presumably, the maxima of the two waves of the OF polarograms are caused by variation of the active electrode surface. Since both OF waves have the same height, reduction to Zr metal probably takes place according to "4-2-0" (two successive processes) or according to "4-2, 4-0" (two parallel processes). For the systems KCl-NaCl - ZrCl4, KCl-NaCl-ZrO2, KCl-NaCl-NaF-ZrO2 the electrodic processes were only estimated approximately. As ZrCl possesses a considerable vapor tension at melting temperature, its 30% solution was used Card 2/3

GORODSKIY, A.V.

\$/021/62/000/002/009/010 D299/D304

24.25×0 26.2500 AUTHORS:

Horodys'kyy, O. V. and Panov, E. V. Measurement of impedance of electrolytic cells by

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 205-206 TITIE:

TEXT: A simple method is proposed for measuring the impedance of electrolytic cells. Among parlier methods the most important is TEXT: A simple method is proposed for measuring the impedance of lectrolytic cells. Among earlier methods, the most important is electrolytic cells. Among earlier method, however, becomes the a.c.-impedance bridge method. This method, current is disturbed the a.c.-impedance sinusoidal character of the current is made and of compensation by 2 variables - amplitude and of compensation by 2 variables. practicable if the sinusoidal character of the current is disturbed.

practicable if the sinusoidal character of the current is disturbed.

and phase and phase amplitude and phase are instead of compensation by 2 variables — amplitude and phase nere.

it is more convenient to measure one variable with 2 narameters. Hence, instead of compensation by 2 variables - amplitude and phase with 2 parameters one variable, with 2 parameters it is more convenient to measure one variable, whe volit is more convenient to measure one variable, with 2 parameters The volit is more convenient to measure one variable, with 2 parameters The volit is more convenient to measure one variable, with 2 parameters The volit is more convenient to measure one variable, with 2 parameters The volit is measured (r = 0). The ratio of the education of the total impedance of the total impedance of the value of r is varied (r = 0), and the total tages equals the ratio of r is varied (r = 0), and the total tages equals the ratio of r is varied (r = 0), and the total tages equals the ratio of r is varied (r = 0), and the total tages equals the ratio of r is varied (r = 0). ectrolytic cell. Then the value of r is varied  $(r \neq 0)$ , and the total total impedance is measured. The relationships obtained yield formulas tal impedance is measured.

card 1/3

33754 S/021/62/000/002/009/010 D299/D304

Messurement of impedance ...

for the capacitance component x and resistance component  $\rho$  of the impedance of the electrolytic cell. This simple method is a modification of the method of comparison (Ref. 9: V. L. Kheyfets et al., Praktikum po teoreticheskoy elektrokhimii, Uzd-vo LGU, 1951); the Praktikum po teoreticheskoy elektrokhimii, Uzd-vo LGU, 1951); the method of comparison has the disadvantage that the measurements can be carried out only if  $\rho=0$ . The method proposed in the present article was tested on liquid and solid electrodes, in melts of chlorides (cadmium, lead, tin) and potassium nitrate; it gave sachlorides (cadmium, lead, tin) and potassium nitrate; it gave sachlorides (cadmium, lead, tin) and potassium of the standard and investitisfactory results. Instead of measuring the standard and investigated impedance, the accuracy of the method can be considerably increased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation bridge. Two types of compensation creased by using a compensation c

ASSOCIATION:

Instytut zahal'noyi ta neorhanichnoyi khimiyi AN UkrRSR (Institute of General and Inorganic Chemistry

of the AS UkrRSR)

Card 2/3

X

GORODYSKIY, A.V. [Horodys'kyi, O.V.]

Method of direct calculation of the prelogarithmic coefficients of polarization curves. Dop. AN URSR no.4:495-496 '62. (MIRA 15:5)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
Predstavleno akademikom AN USSR Yu.K.Delimarskim [Delimars'kyi, IU.K.].

(Polarography)

DELIMARSKIY, Yu. K. (Kiev); GORODYSKIY, A. V. (Kiev); PANOV, E. V. (Kiev)

Chromopotenticmetric determination of interelectrode capacitance in fusions. Rev chimie 7 no. 1: 139-143

\*62.

1. Akademiya Nauk Ukrainskoy SSR. Institut obshchey i neorganicheskoy khimii, Kiev.

GORODYSKIY, A.V.; KUDRA, O.K.

Electrodeposition and galvanic corrosion of zinc. Ukr.khim.zimr. 28 no.7:812-815 '62. (MIRA 15:12)

1. Kiyevskiy politekhnicheskiy institut. (Zinc plating) (Electric corrosion)

DELIMARSKIY, Yu. K.; GORODYSKIY, A.V.; SHAFOVAL, V.I.

Analysis of polarograms of the reversible isolation of metals from melts. Ukr.khim.zhur. 28 no.9:1037-1041 162. (MIRA 15:12)

l. Institut obshchey i neorganicheskoy khimii AN UkrSSR. (Fused salts) (Polarography)

DELIMARSKIY, Yu.K., akademik; GRISHCHENKO, V.F.; GORODYSKIY, A.V.

Capacity of a double layer in the binary PbCl<sub>2</sub> - KCl melt. Dokl.

AN SSSR 144, no.2:384-385 My '62. (MIRA 15:5)

1. Institut obshchey i neorganicheskoy khimii AN USSR.

2. AN USSR (for Delimarskiy).

(Fused salts) (Electrochemistry))

GORODYSKIY, A.V.: DELIMARSKIY, Yu.K.; PANOV, E.V.; BALEZIN, E.A.

Method of low-frequency polaroscopy and a universal device for recording polarization curves. Zav. lab. 29 no.9:1035-1041 '63. (MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

BYKOVA, M.I., insh.; GORODYSKIY, A.V., insh.

Electrolytic zinc plating from fused salts. Shor. trud. TSNIICHM no.34:58-60 '63. (MIRA 17:4)

## DELIMARSKIY, Yu.K.; GORODYSKIY, A.V.

Position of polarograms obtained at solid electrodes in current - voltage - time coordinates. Zhur. fiz. khim. 35 no.5:1091-1094 My '61. (MIRA 16:7)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. (Polarization(Electricity))

DELIMARSKIY, Yu.K.; GRISHCHENKO, V.F.; GORODYSKIY, A.V.

Shift of polarograms during complex formation. Ukr.khim.zhur. 29 no.5:
497-502 '63.

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

GORODYSKIY, A.V.; PANOV, E.V.

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

GORODYSKIY, A.V.; PANOV, E.V.

Oscillographic study of the interelectrode capacity in fused salts for calls with a small phase shift. Ukr. Khim. zhor. 30 no.10:1060-1064 154. (MHM 17:11)

1. Institut obshchey i neormanicheskoy khimil AN UkrOSR.

## "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516310005-0

#### CIA-RDP86-00513R000516310005-0 "APPROVED FOR RELEASE: 08/25/2000

DELIMARSKIY, Yu.K., akademik; GORODYSKIY, A.V., kand.khim.nauk

Conference on Physical Chemistry and the Electrochemistry of
Molten Salts and Slags held in Kiev. Vest. AN SSSR 34 no.3:
(MIRA 17:4) 127-129 Mr 164.

1. AN UkrSSR (for Delimarskiy).

S/0080/64/037/004/0899/0901

ACCESSION NR: AP4032505

AUTHORS: Gorody\*skiy, A.V.; By\*kova, M.I.

TITLE: Electroplating cadmium from salt melts

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 4, 1964,899-901

TOPIC TAGS: electroplating, cadmium, technology, plating rate, corrosion resistance, mechanical property, ductility, density, cohesion, molten cadmium chloride electrolyte, electrolysis, throwing power,

ABSTRACT: This article relates to electroplating steel articles with liquid cadmium. After polishing, degreasing, and pickling in 150 g/1 HOl solution St-20, 30KhGSA and 30KhGSNA steel pieces were electroplated in molten CdCl<sub>2</sub> electrolyte containing 5-8% AlCl<sub>2</sub>, which was used to improve the wettability of the steel. Ammonium, lead, was used to improve the wettability of the steel. Ammonium, lead, zinc, and magnesium chlorides were found to be less effective as zinc, and magnesium chlorides were found to be less effective as wetting agents. The throwing power was increased by periodically reversing the current, and optimum conditions were obtained by electrolysis in an electrolyte containing 67% by weight anhydrous CdCl<sub>2</sub> and 33% by weight KOl, an anode of 90-92% Od and 8-10% Al, and at a temperature

Card 1/2

ACCESSION NR: AP4032505 of 420 to 4500. The recommended current density is 100 amp/dm2 direct current and 10-20 amp/dm2 for reversed current with a half-cyle time of 1 sec. The plating rate was 0.5 microns/sec, which is 100 times that of platings from aqueous solutions; deposits of up to 20 microns were obtained. It was found that the deposits have corrosion resistance comparable to deposits obtained from conventional solutions. and have good mechanical properties such as ductility, density, and adhesion to the base metal. Orig. art. has: 1 table and 1 formula. ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrssR (Institute of General and Inorganic Chemistry, AN UkrSSR) SUBMITTED: 20Jul62 ATD PRESS: EHCL: 3080 SUB CODE: NR REF SOV: 005 OTHER: 002

DELIMARSKIY, Yu.K., akademik; GORODYSKIY, A.Y.; GRISHCHENKO, V.F.

Cathode liberation of carbon from molten carbonates. Dokl.
AN SSSR 156 no. 3:650-651 '64. (MIRA 17:5)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSSR.
2. AK UkrSSSR (for Delimarskiy).

GORODYSKIY, A.V., otv. red.; POKROVSKAYA, Z.S., red.

[Physical chemistry and electrochemistry of fused salts] Fizicheskaia khimiia i elektrokhimiia rasplavlennykh solei. Kiev, Naukova dumka, 1965. 147 p.

1. Akademiya nauk URSR, Kiev. Instytut zahal'noi ta neorganichnoi khimii.

DELIMARSKIY, Yu.K.; GRISHCHENKO, V.F.; GORODYSKIY, A.V.

Reactions taking place during electrolysis of fused carbonates. Ukr. khim. zhur. 31 no.1:32-37 '65. (MIRA 18:5)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

DELIMARSKIY, Yu.K.; GCRODYSKIY, A.V.; PANOV, E.V.

Measurement of silver exchange currents in fused salts. Ukr. khim. zhur. 31 no.8:782-785 '65. (MIRA 18:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.